

Application No. 10/826,042
Response to Office Action

Customer No. 01933

Listing of Claims:

1. (Currently Amended) A microscope apparatus comprising:
an area-light source ~~that outputs~~ which faces a sample to
output a uniform area light, and which directs the light towards
two irradiation regions corresponding respectively to a right
5 field of view and a left field of view; wherein the area light
passes through a sample;

a plurality of two eye pieces, including a right eye piece
which has the right field of view and a left eye piece that has
the left field of view, to simultaneously observe the sample,
10 each eye piece having a field of view and the fields of view of
all the eye pieces are being aligned in a direction perpendicular
to an optical axis of the area light;

an adjusting unit which is provided between the area-light
source and the sample, and which that includes a notch that
15 extends in the direction perpendicular to the optical axis of the
area light [[,]] and that has a width of the notch which
changes in a predetermined manner along the two irradiation
regions; [[,]]

wherein an amount of the area light passing through each of
20 the fields of view is adjustable the sample is adjusted by moving
the adjusting unit in the direction perpendicular to the optical
axis of the area light.

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2. (Currently Amended) The microscope apparatus according to claim 1, wherein the adjusting unit is ~~moved~~ movable in the direction along which the two irradiation regions are arranged, ~~perpendicular to the optical axis of the area light~~ so as to
5 ~~adjusts~~ adjust the amount of the area light passing through each of the right and left fields of view while adjusting a total amount of light that is incident on the right and left fields of view.

3. (Original) The microscope apparatus according to claim 1, wherein the width of the notch changes monotonously.

4. (Original) The microscope apparatus according to claim 1, wherein the width of the notch changes continuously.

5. (Currently Amended) The microscope apparatus according to claim 1, wherein the sample includes a fluorescent ~~objects~~ object and a non-fluorescent object and both the fluorescent object and the non-fluorescent object are visible.

6. (Original) The microscope apparatus according to claim 1, wherein the sample includes a plurality of non-fluorescent objects and the non-fluorescent objects are visible.

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7. (Original) The microscope apparatus according to claim 1, wherein the sample includes a plurality of non-fluorescent objects mixed in a culture medium and the non-fluorescent objects are visible.

8. (Currently Amended) The microscope apparatus according to claim 1, ~~wherein comprising two eye pieces, and a ratio of areas of the two irradiation regions through which the area light from the area-light source passes fields of view of the eye pieces~~ is between 1.03:1 and 1.3:1.

9. (Currently Amended) The microscope apparatus according to claim 1, wherein the notch is wedge-shaped ~~V-shaped~~.

10. (Original) The microscope apparatus according to claim 9, wherein an angle between sides of the notch is between 10° and 45°.

11. (Original) The microscope apparatus according to claim 1, wherein the sample is positioned at a position that is 20 millimeters to 60 millimeters away from the adjusting unit.

12. (Currently Amended) The microscope apparatus according to claim 1, wherein an angle of inclination formed by two optical

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axes extending from the sample to the right and the left eye
pieces, respectively, between the sample and an optical axis
5 towards the eye pieces corresponding to each field of view from
the sample is between 10° and 15°.

13. (Currently Amended) The microscope apparatus according
to claim 1, wherein the ~~notch is formed with~~ adjusting unit
comprises two light shading objects which are capable of pivoting
around a point joint and in which the notch is formed.

14. (Currently Amended) ~~The~~ A microscope apparatus
according to claim 1, wherein the comprising:

an area-light source which faces a sample to output a
uniform area light, and which directs light towards two
5 irradiation regions corresponding respectively to a right field
of view and a left field of view;

two eye pieces, including a right eye piece which has the
right field of view and a left eye piece which has the left field
of view, to simultaneously observe the sample, the fields of view
10 of the eye pieces being aligned in a direction perpendicular to
an optical axis of the area light; and

an adjusting unit which includes a notch that is tilted
tiltable with respect to the area-light source, wherein a width
between sides of the notch changes continuously, and wherein an

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- 15 amount of the area light passing through the sample from the two irradiation regions is adjusted by moving the adjusting unit.
~~and continuously change the angle between sides of the notch.~~

15. (Currently Amended) The microscope apparatus according to claim 1, wherein the ~~notch is formed in adjusting unit~~
comprises a light shading object in which the notch is formed.

16. (Currently Amended) The microscope apparatus according to claim 1, wherein ~~notches are formed in each of the adjusting~~
unit comprises two light shading objects which are capable of pivoting around a line joint and in which the notch is formed.

17. (New) A microscope apparatus comprising:

an illuminating unit which faces a sample to output a uniform area light, and which directs the light towards two irradiation regions corresponding respectively to a right field
5 of view and a left field of view;

a right observation unit which has the right field of view and a left observation unit which has the left field of view, to simultaneously observe the sample, the fields of view of the observation units being aligned in a direction perpendicular to
10 an optical axis of the area light emitted from the illuminating unit; and

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an adjusting unit which is provided between the illuminating unit and the sample, and which includes a notch that extends in the direction perpendicular to the optical axis of the area light emitted from the illuminating unit and that has a width which
15 changes in a predetermined manner along the two irradiation regions;

wherein an amount of the area light passing through each of the fields of view is adjustable by moving the adjusting unit in
20 the direction perpendicular to the optical axis of the area light emitted from the illuminating unit.